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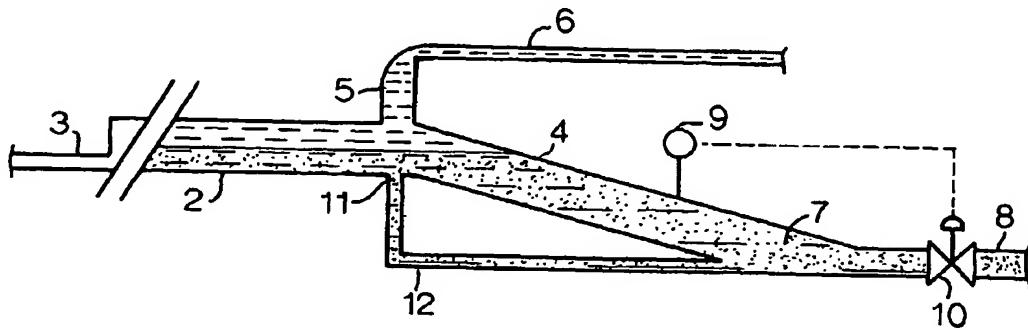
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(54) Title: METHOD AND DEVICE FOR SEPARATING A MIXTURE OF FLUIDS



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(57) Abstract: A mixture of fluids is separated into at least two phases, one of which has a higher density than the other, passing the mixture through a normally horizontal supply pipe, by creating a stratified flow in the supply pipe, by passing the mixture through an inclined pipe, whilst maintaining a stratified flow in the inclined pipe, by extracting fluid with lower density ("lighter phase") via a first discharge system and fluid with a higher density ("heavier phase") via a second discharge system, wherein the interface between the lighter phase and the heavier phase is monitored in the inclined pipe by a level controller means that varies the flow of the fluid of higher density to keep the interface between set levels. The invention also provides a device for employing this method.